

Figure 1b

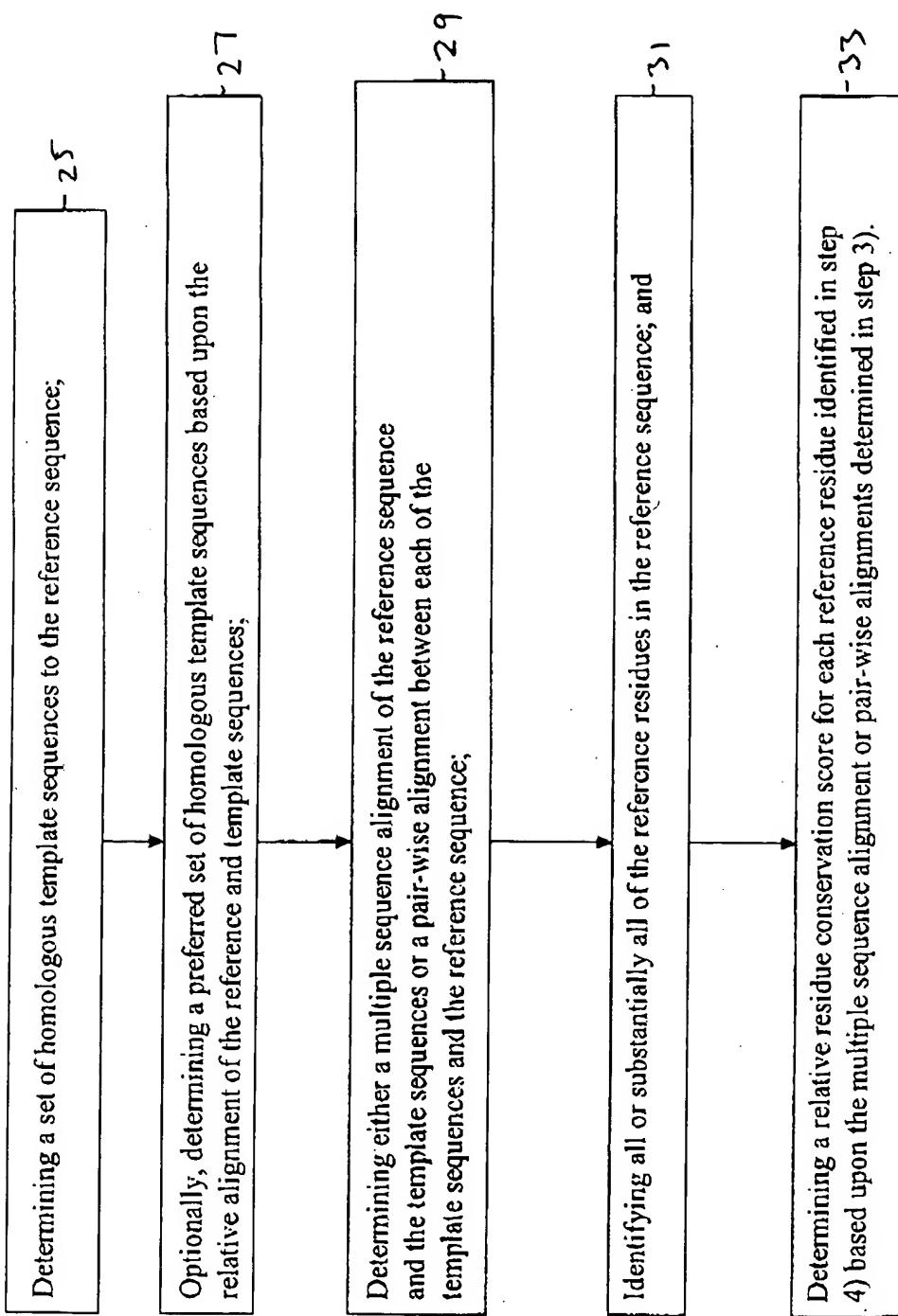
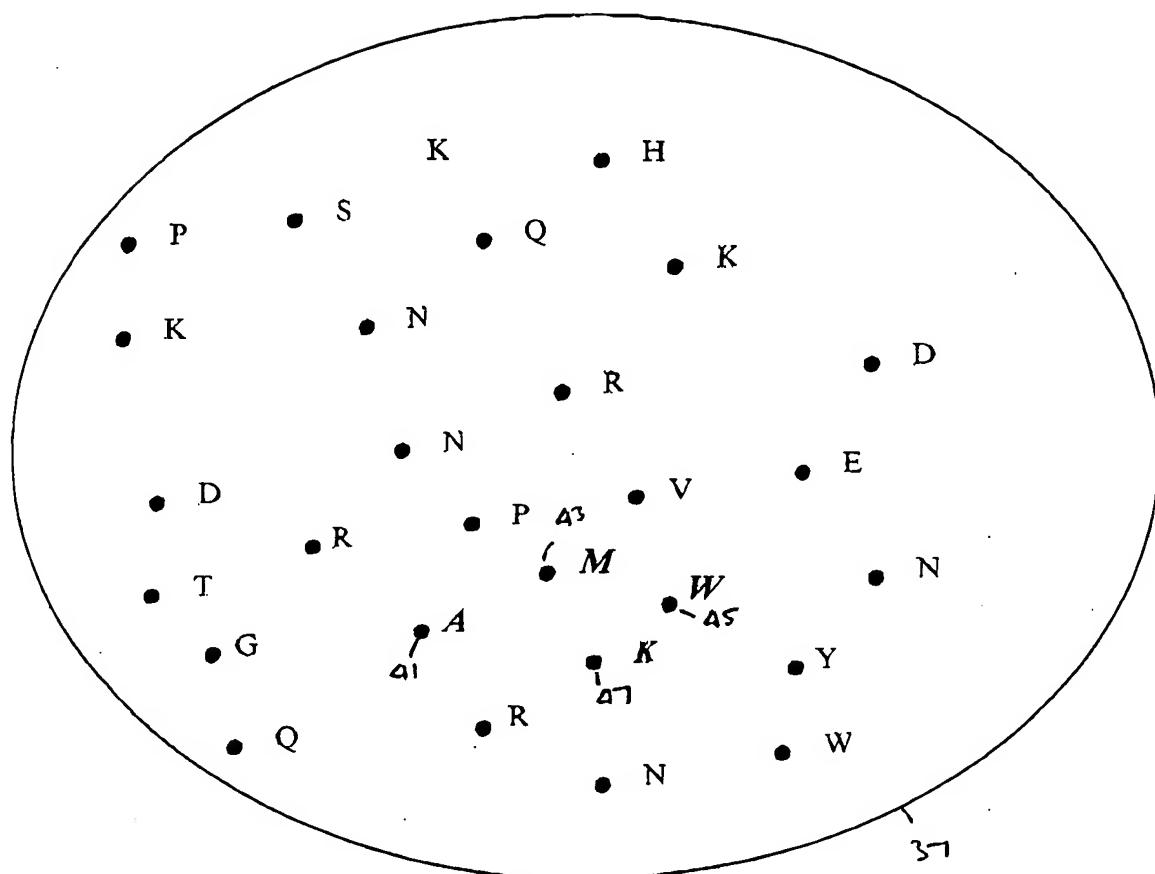


Figure 2a



41 43 45 47  
R V P R N Q H . .  
G V P K L T C . .  
G V R M L T C . .  
K G T P W R P C . .  
G V H W L W C . .  
39

Figure 2b

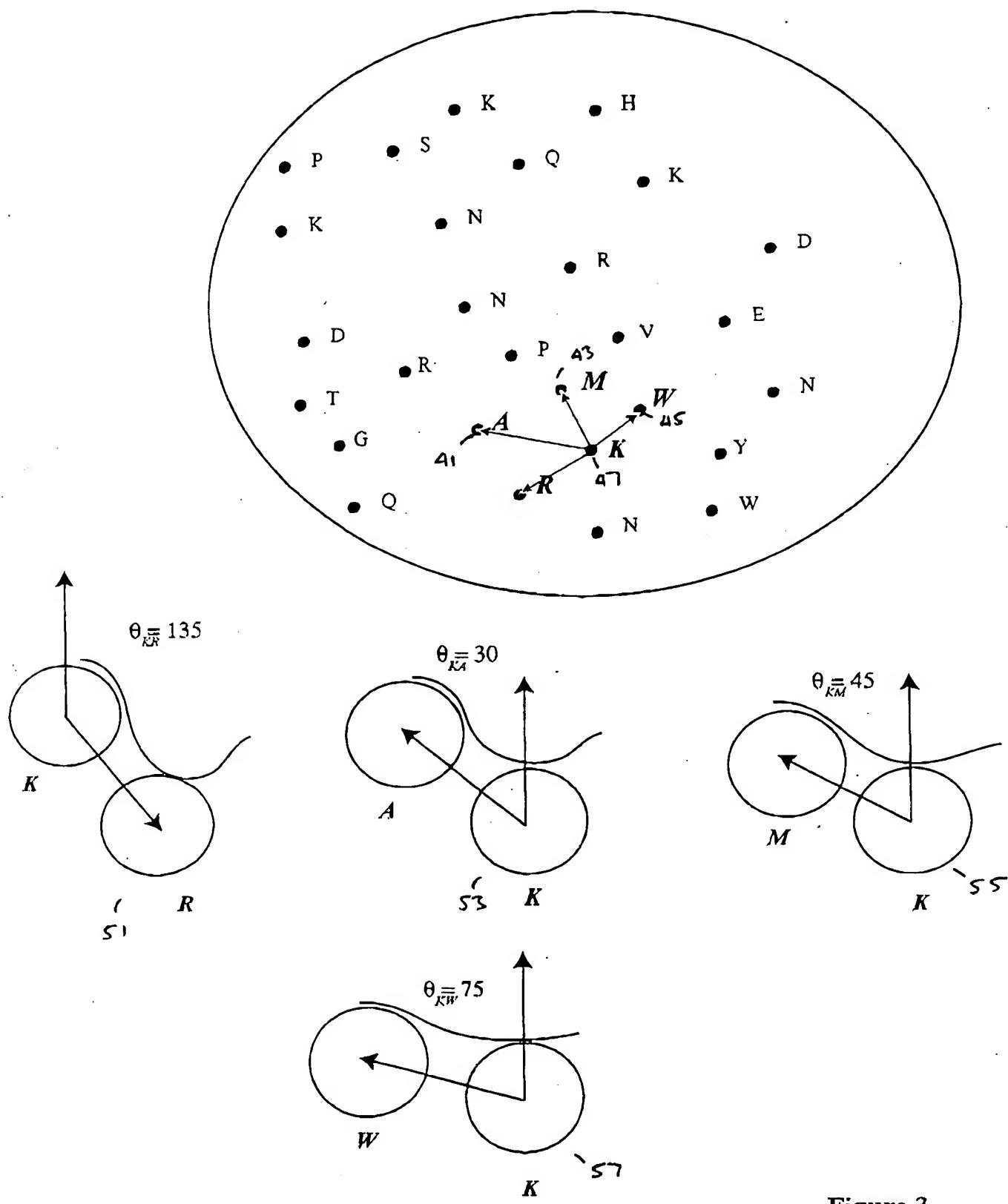
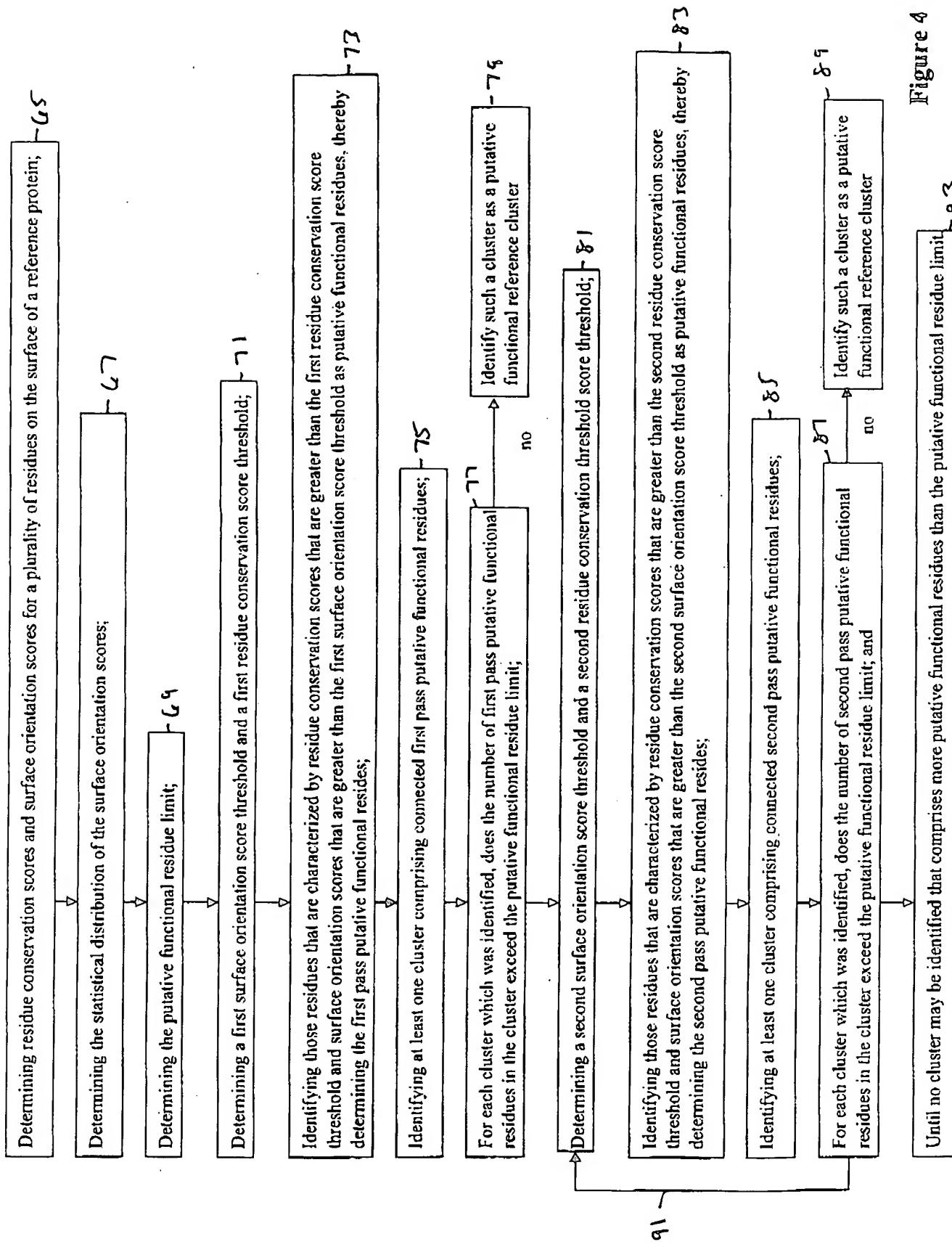


Figure 3



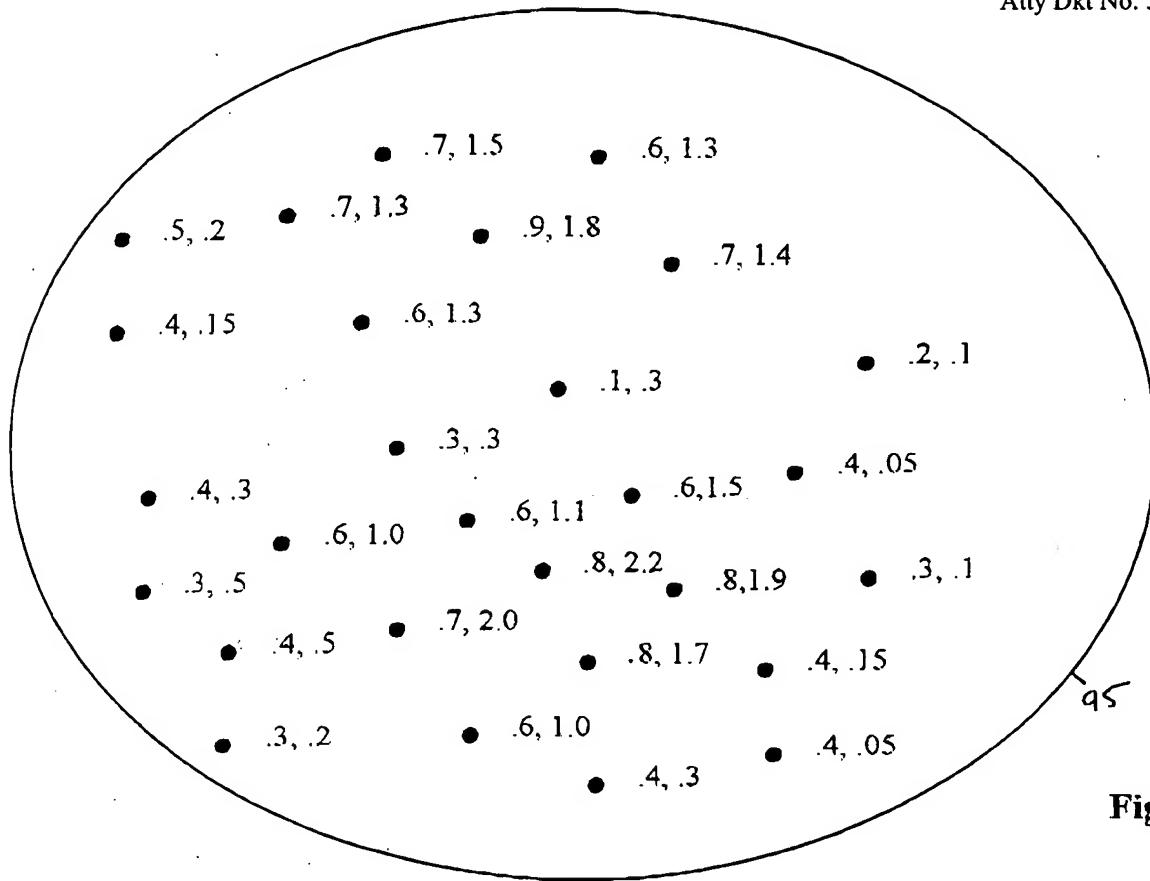


Figure 5a

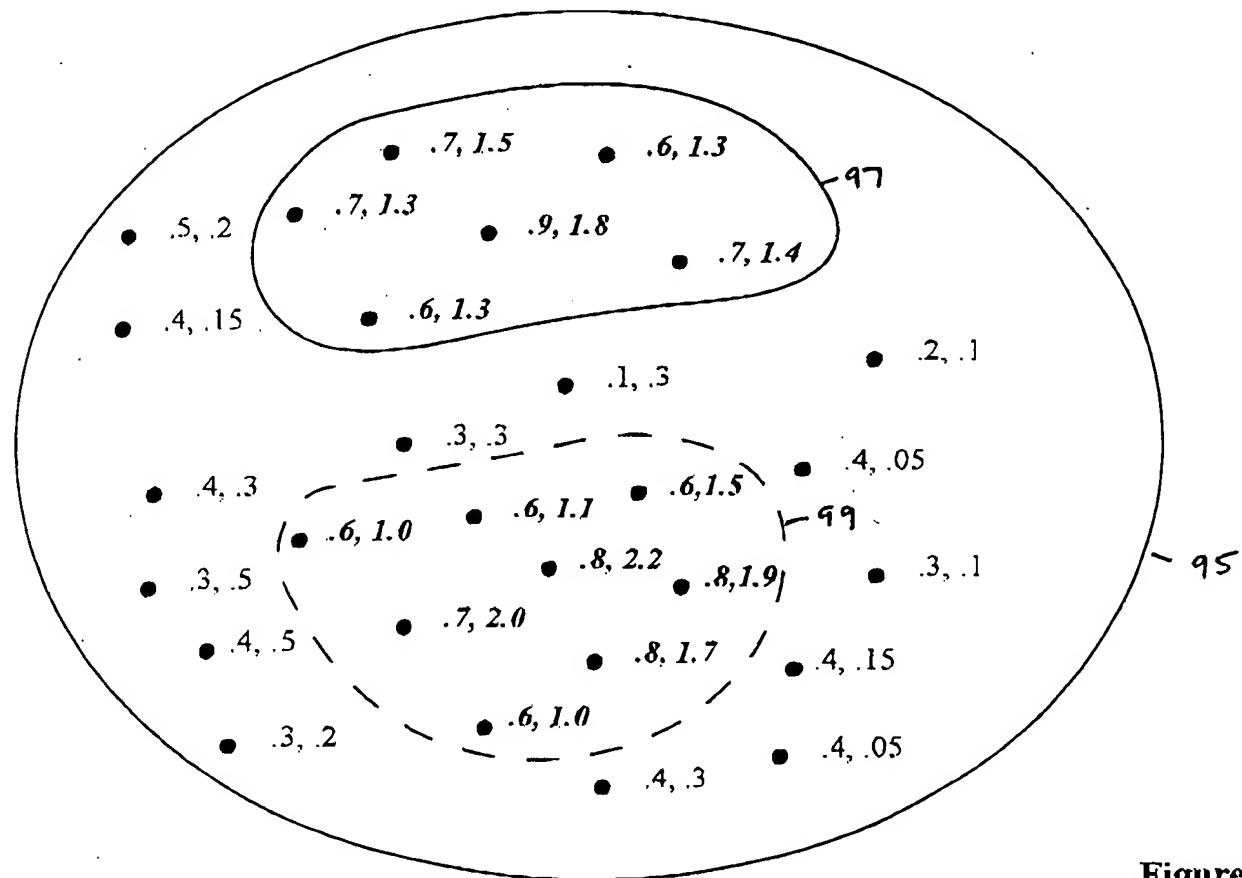


Figure 5b

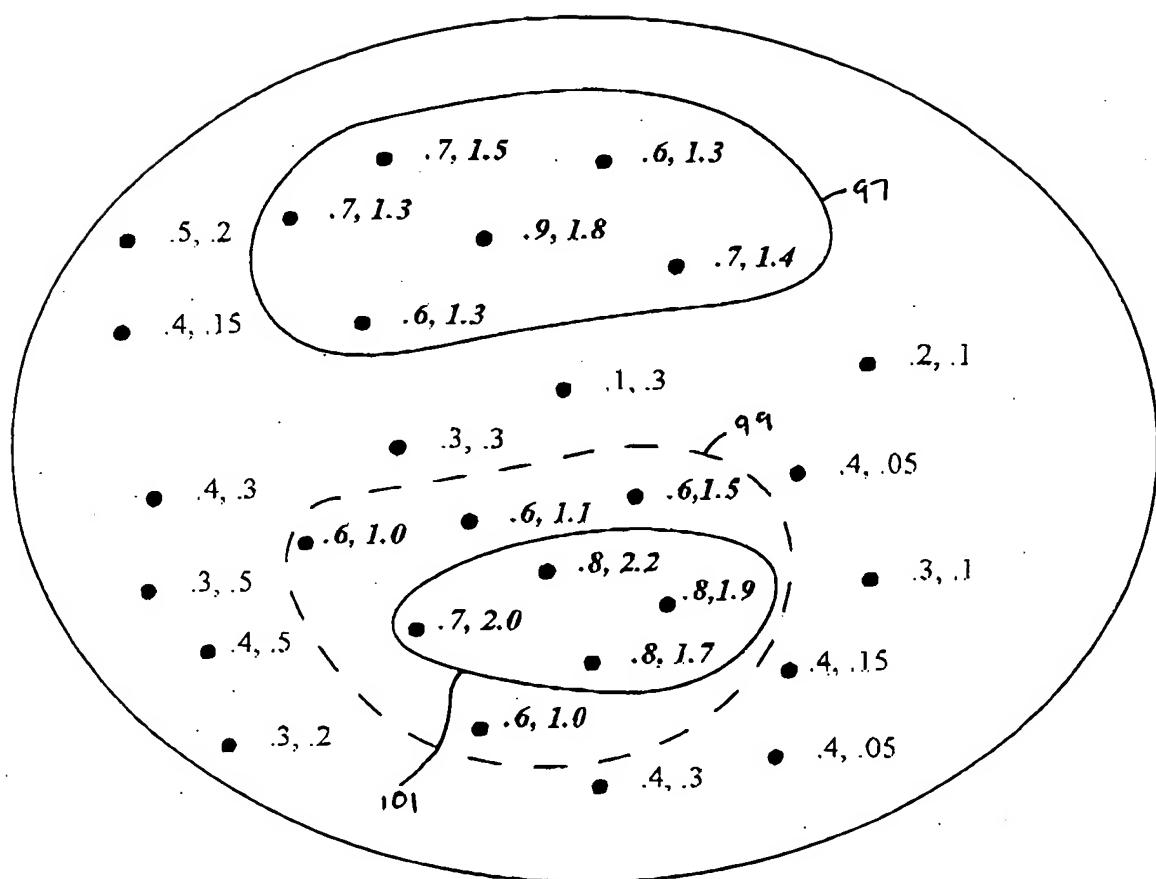


Figure 5c

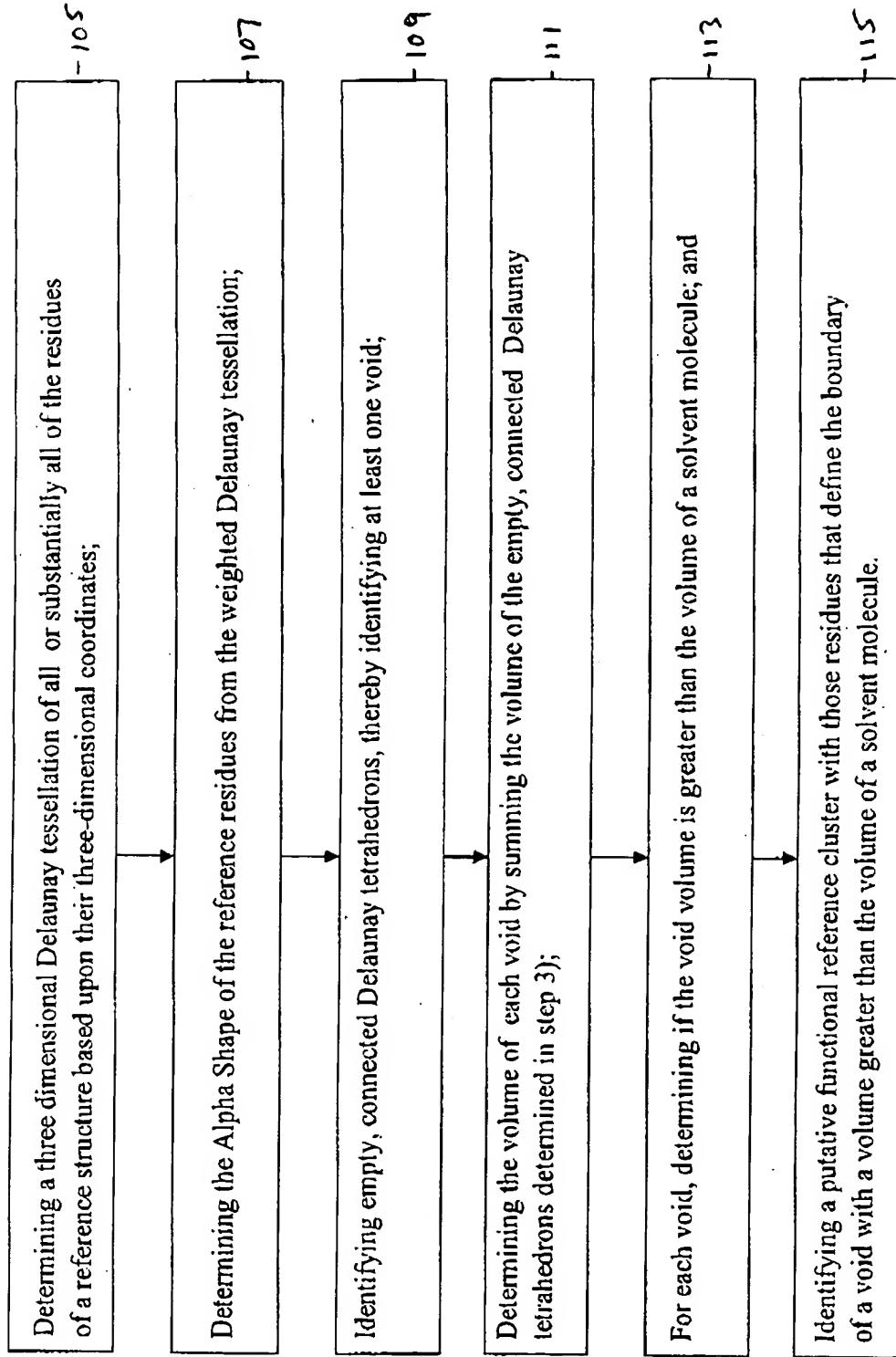


Figure 6

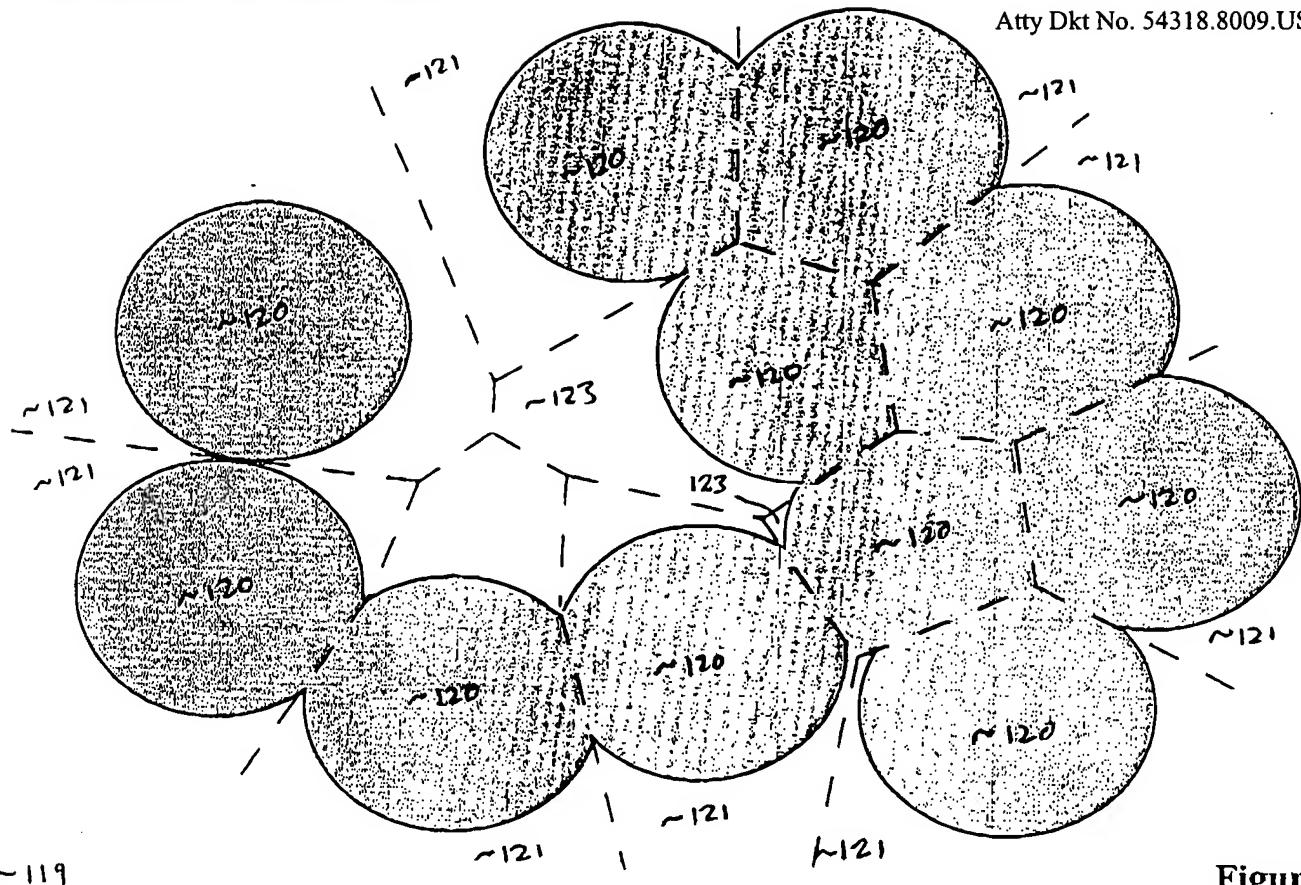


Figure 7a

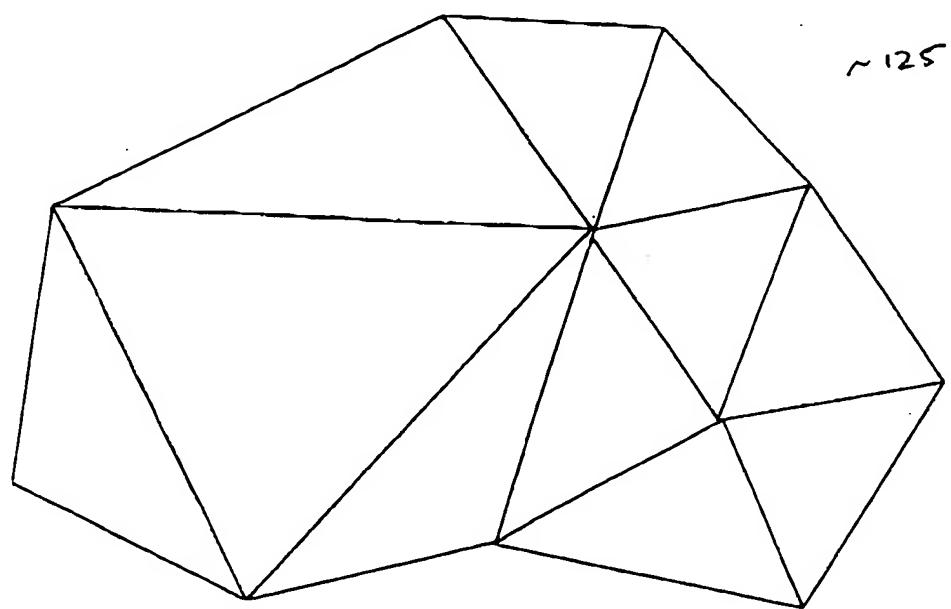


Figure 7b

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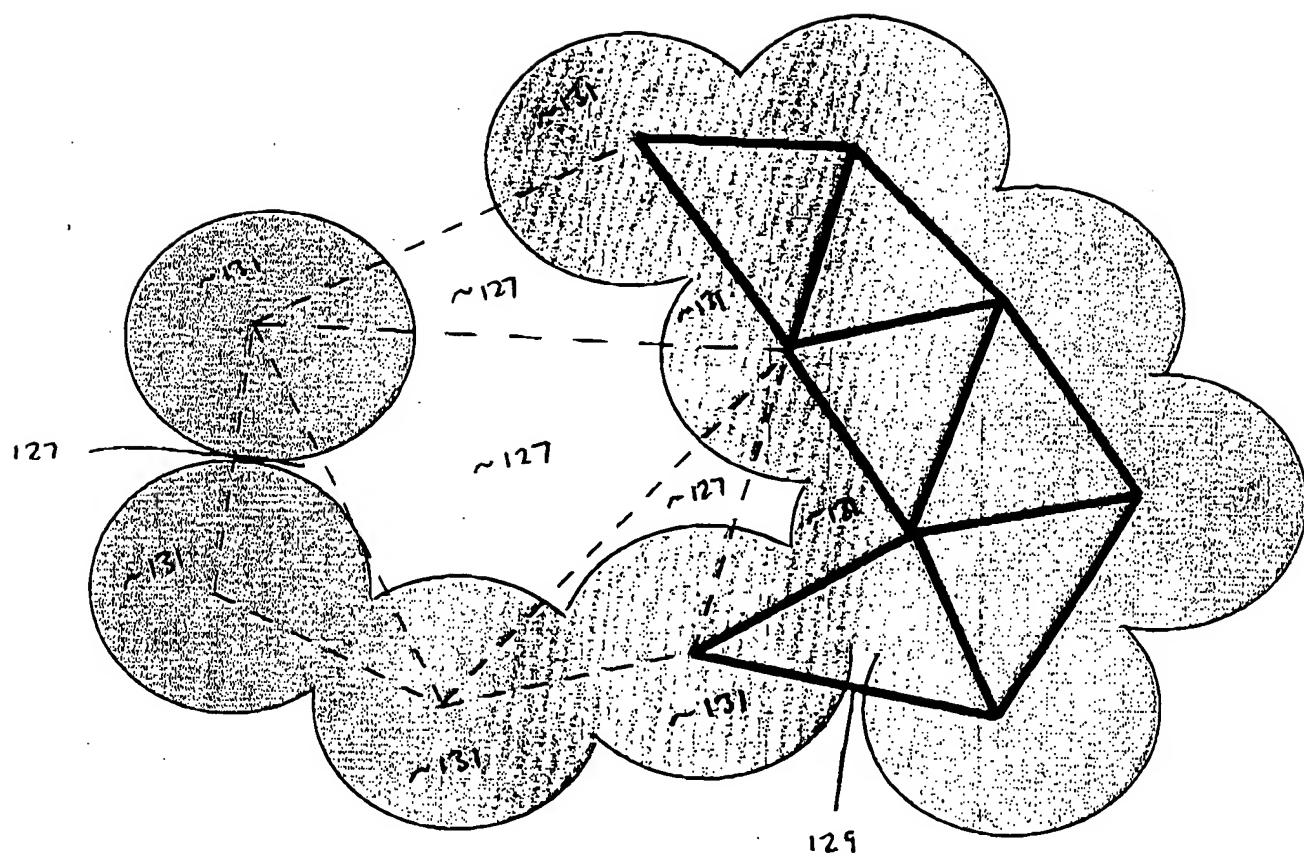


Figure 7c

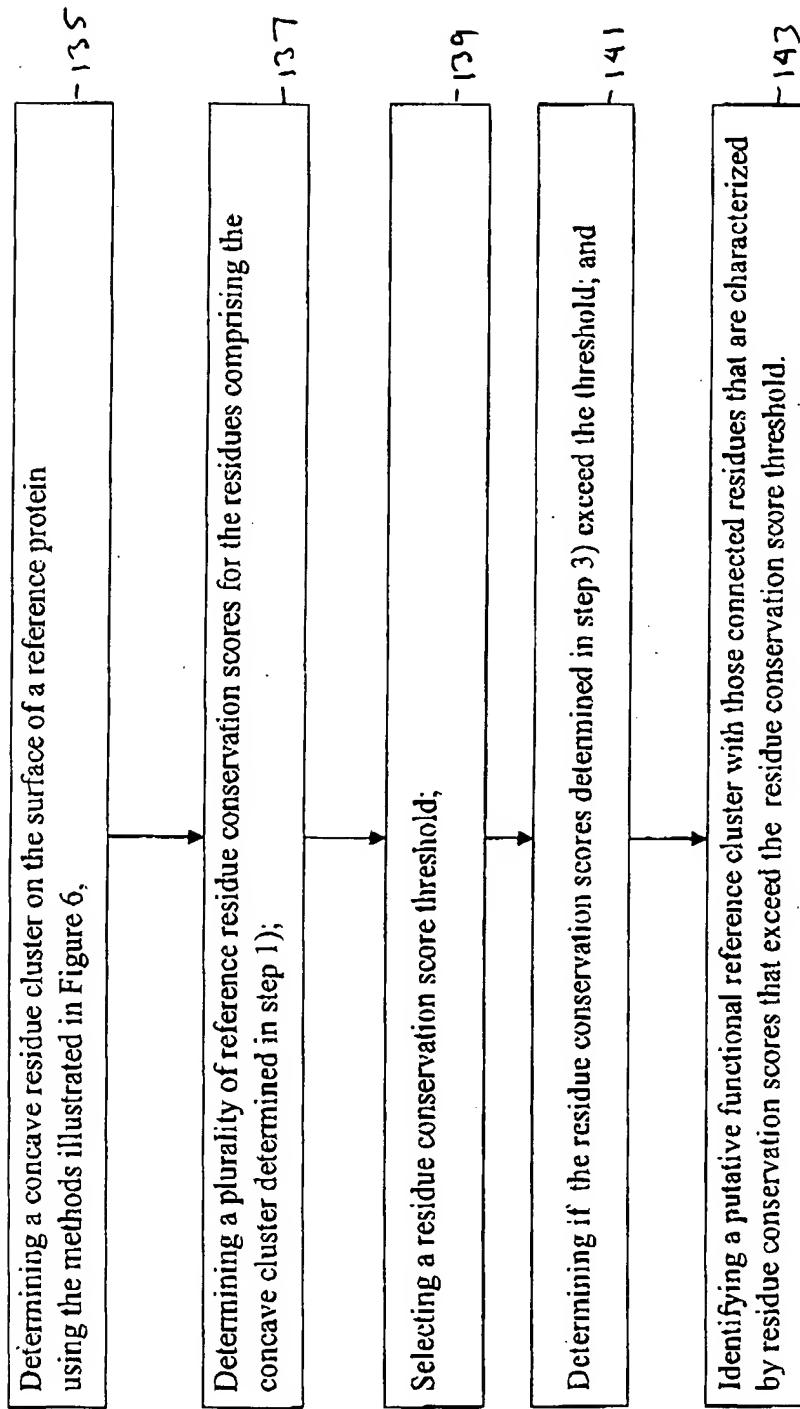


Figure 8

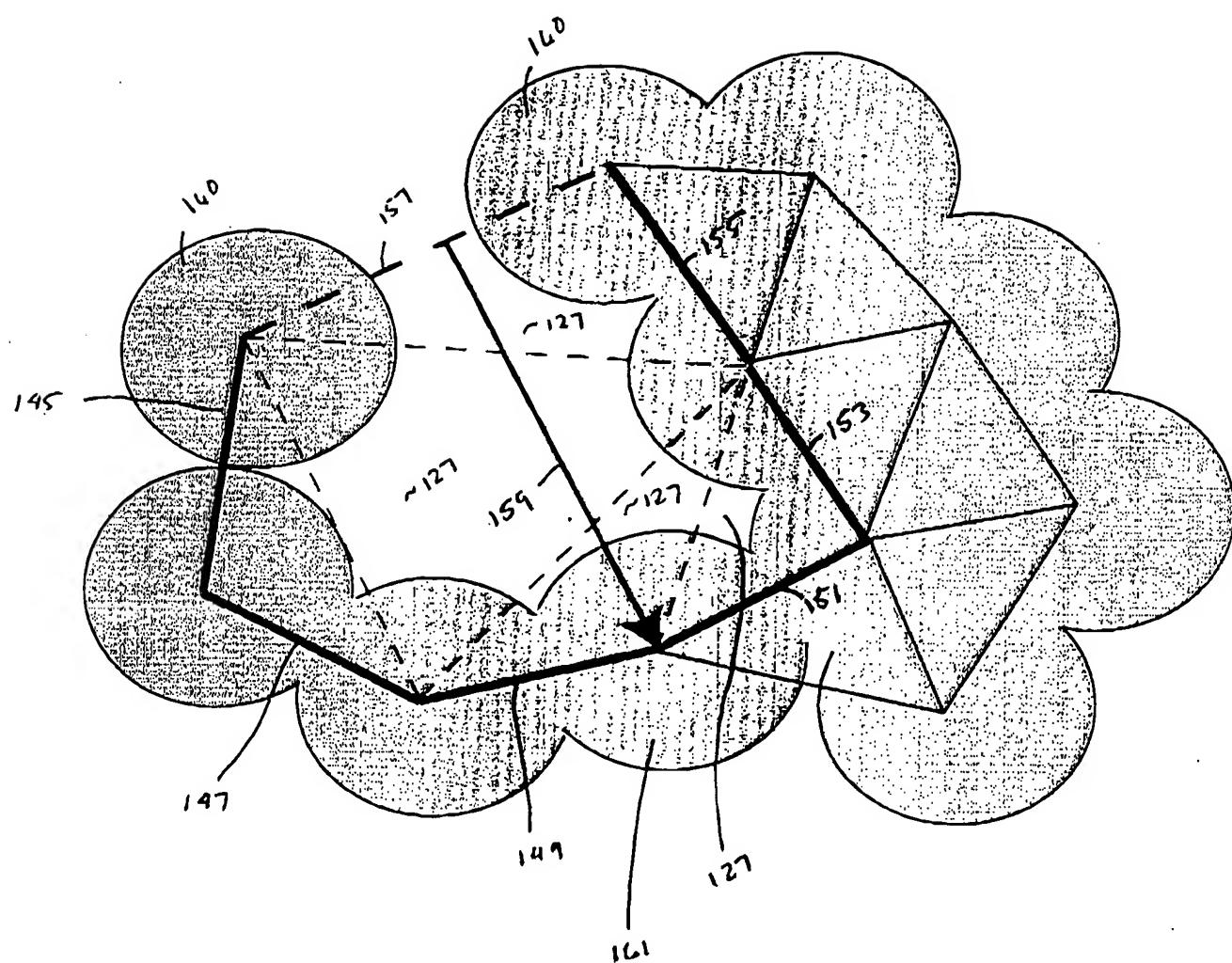


Figure 9

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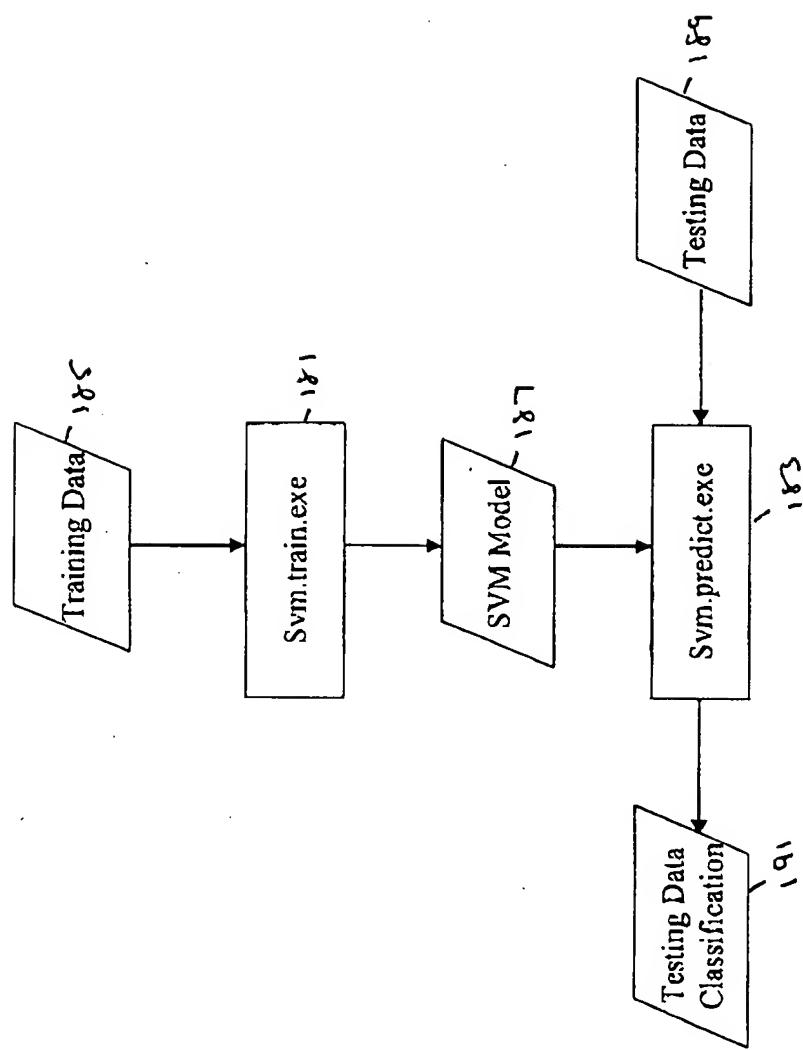


Figure 10

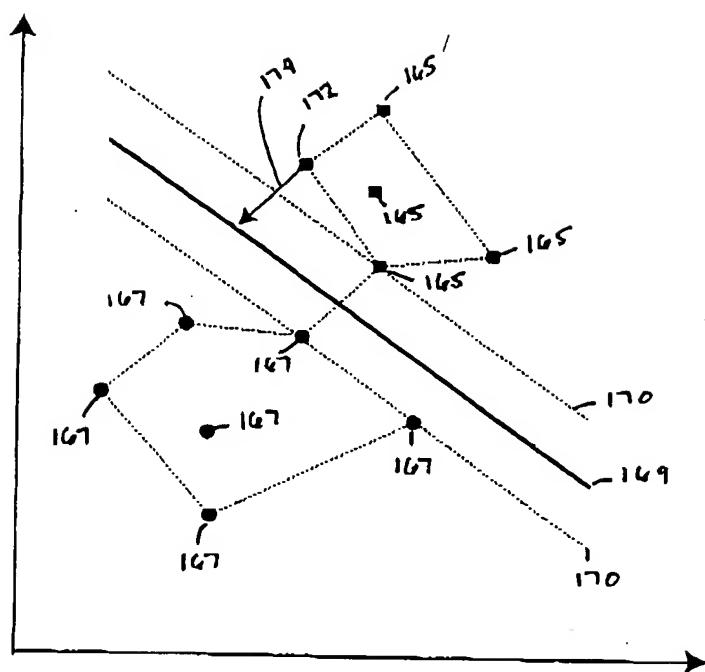


Figure 11

BEST AVAILABLE COPY

**Multiple Sequence Alignment of PDB:12asA Sequence  
with Template Sequences**

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gi  24115047	AYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGCEKAVQVKVKALP
gi  16762449	AYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGCEKAVQVKVKALP
gi  16767161	AYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGCEKAVQVKVKALP
gi  16120356	AYIAKQRQISFVKSHFSRQLEERLGLIEVQAPILSRVGDGTQDNLSGCEKAVQVKVKALP -FIQKQQQISFVKSFFSROLEQQGLLIEVQAPILSRVGDGTQDNLSGSEKAVQVKVKSLP
gi  22536630	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  25010567	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  15901793	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  15903827	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  19746488	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  15675438	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  16272507	SFIHQQQEISFVKNTFTQYLIDKLEIEVEVQGPILSQVGDGMQDNLSGIEHPVSVKVLNIP
gi  15603439	SFIHQQQEISFAKNTFTEKLAELHGIEVEVQGPILSQVGNQIQDNLSGAEKAVQVNVKQIT
gi  23467425	SFIHQQQEISFAKNTFTEKLAELHGIEVEVQGPILSQVGNQIQDNLSGTEKAVQVNVKQIT
gi  15639545	SFIHQQQGIFAKHTFTQKLMEMHGLIEVQGPLLSQVGDGIQDGLSGREKAVSVVKQIP
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gi  21399686	----QIAIKEVKTFFEDQLAKRLELFRVSAPLFVTKSGLNDHNGVERPIEFDMHSG
gi  28210498	----AIKEVKDCFERALAKQLNIRVSAPLFVRCDKGLNDNLNGVERPVKFTVKDDN
gi  23023030	-----
gi  27887138	-----EIAIKVKDFFESRLAKELDLLRVSAPLFVIPESGLNDNLNGTERPVSFDTKSGE
gi  19704111	-----EIAIKVKDFFESLKSKELDLLRVSAPLFVIPESGLNDNLNGTERPVSFDTKSGE
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gi  23003194	-----AIVFIRETFQDKIAEKLNVQRMSAPMFVEKSTGLNDNLNGVERPVSFDMKAMP
gi  28377779	-----QQAIRYIRETFQDFEGKQLNLSRLSAPMFVEKKTGLNDNLNGVEKPVFSFTMQDMG
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gi  24762277	-----
gi  13357923	-----QKAIVEIKNSFQKHFAKNLNLSRVTAPLFVEGQSGLNDHLDHKQKAVSFYAKLKD
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gi  24115047	DAQFEVVHSLAKWKRQTLGQHDFSAGEGLYTHMKALRPDEDRLSPLHSVYVDQWDWERVM
gi  16762449	DAQFEVVHSLAKWKRQTLGQHDFSAGEGLYTHMKALRPDEDRLSPLHSVYVDQWDWERVM
gi  16767161	DAQFEVVHSLAKWKRQTLGQHDFSAGEGLYTHMKALRPDEDRLSPLHSVYVDQWDWERVM
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gi  16272507	NAVFEVVHSLAKWKRHTLARFNFKEDEGLFVHMKALRPDEDSDLQTHSVDQWDWEKVI
gi  15603439	DATFEVVHSLAKWKRHTLARFNFAQGEGLFVHMTALRPDEDSDLQTHSVDQWDWEKVI
gi  23467425	DAKFEVVHSLAKWKRHTLARFNFAENEGLFVHMKALRPDEDSDLQTHSVDQWDWEKVI
gi  15639545	GTAFEVVHSLAKWKRHTLARYGFQDNEGLFVHMIALRPDEDFLDQRSVCVDQWDWEKVI
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Figure 12a

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Figure 12b

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Figure 12c

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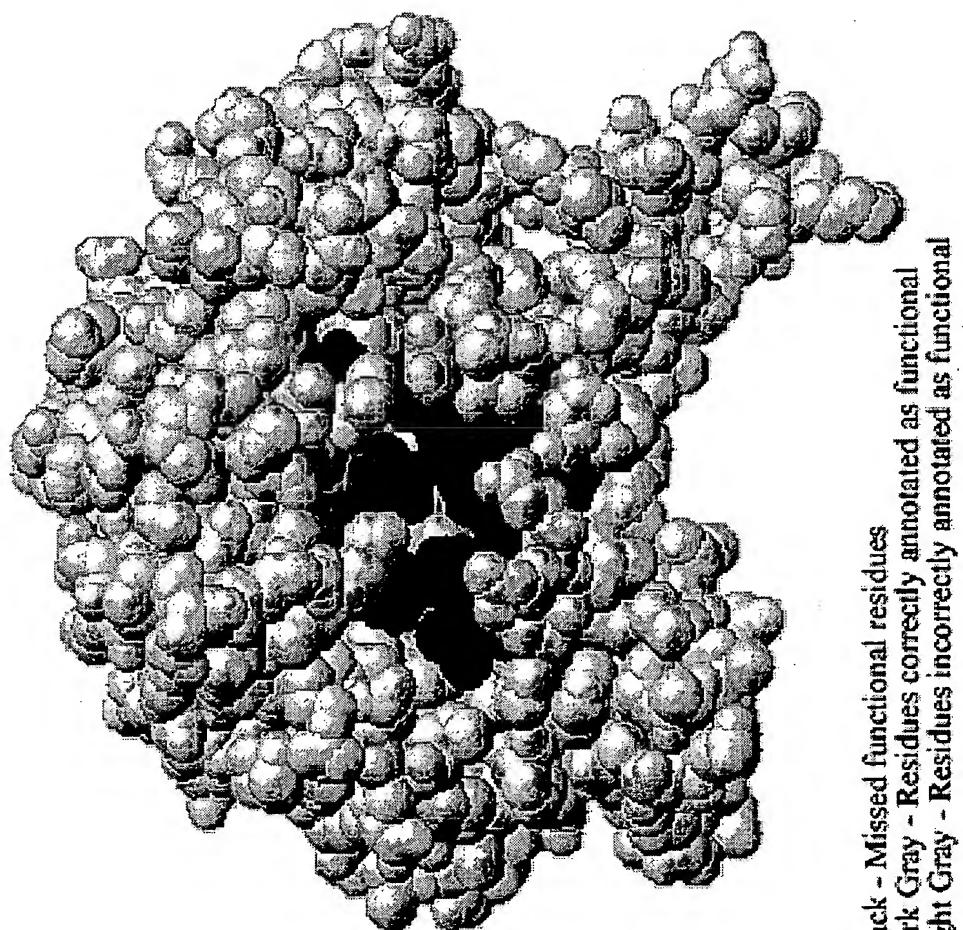
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gi | 16272507  
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LAMFLLRKHHIGEVQSSVWPKEVRDTFENIL  
LAMFLLRKHHIGEVQSSVWPKEVRDTFENIL  
MAMFLLRKRHIGEVQTSVWPQEVRDTYENIL  
MAMFLLRKRHIGEVQTSVWPQEVRDTYENIL  
MVMFLLRKHHIGEVQTSVWPQEVRDSYDNIL  
MVMFLLRKQHIGEVQTSVWPQEVRDSYDNIL  
LAMLLLRKHHIGEVQSSVWPKEMLEEFSNIL  
LVMLLLQKHHIGEVQSSVWPKWVMEQFDNIL  
LAMLLLQKHHIGEVQSSVWPKVVTQFENIL  
LAMLLLQRKHHIGEVQASVWPRESVREEFENIL  
MCMYFLRKAHIGEVQSSVWPDDLREAC---  
MCMYFLRKAHIGEVQSSVWPDDLREAC---  
MCMLFLKKAHIGEVQSSIWPPEEMIKFCEE---  
-----  
ICMFFLDKLHIGEVQASIWSQEVHEIC---  
ICMFFLDKLHIGEVQASIWSQEVHEIC---  
ICMFFLRKAHIGEVQASMWDEDMIRTCEE---  
LCMLLLGKAHIGEVQASIWPCKMIEECE---  
LCMLLLGKAHVGEVQAAALW-----  
LCMLLLQGPH-GEVQASIWPDEIVEKCQ---  
LCMFYLRKAHIGEIQASIWPEDMRKECEEL-  
LCYFLLMKQHIGEVQSSLWPKDILEEAE---  
LCYFLLQKDHIIGEVQASHWSDEIVAE---  
LCMFLLNKKHIGEVQSVWPNEYKDEL---

Figure 12d

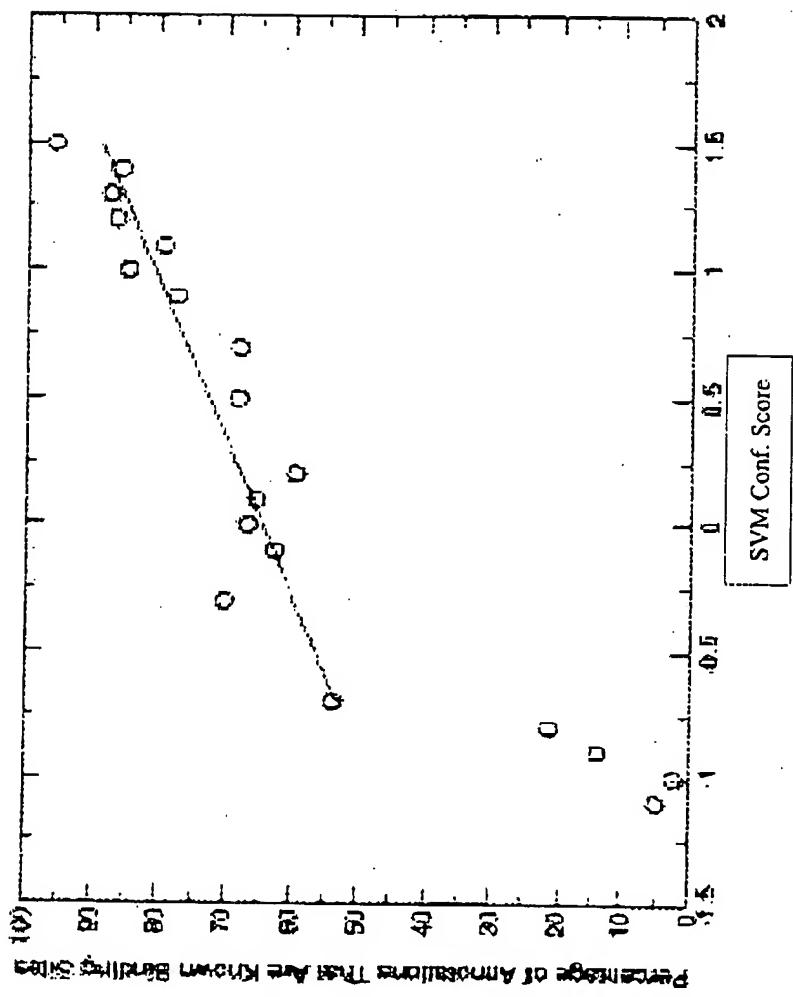
Figure 13



Key:  
■ Black - Missed functional residues  
■ Dark Gray - Residues correctly annotated as functional  
■ Light Gray - Residues incorrectly annotated as functional

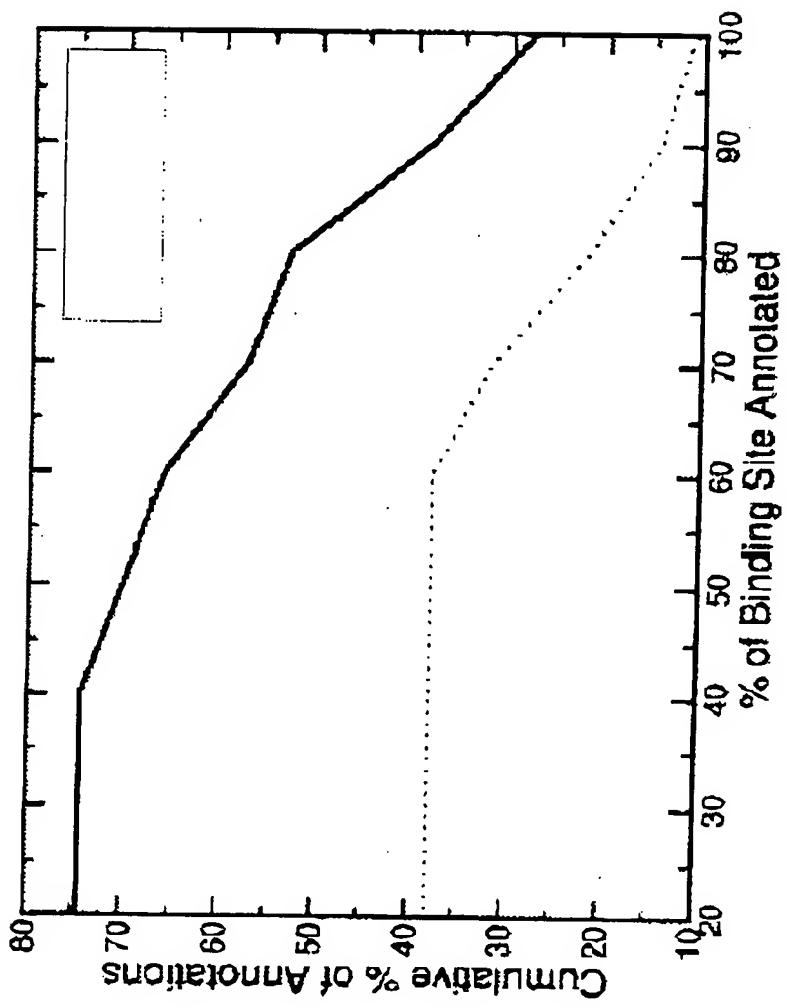
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Figure 14



-35 AVAILABILITY COPY

Figure 15



EST APPROXIMATE COPY

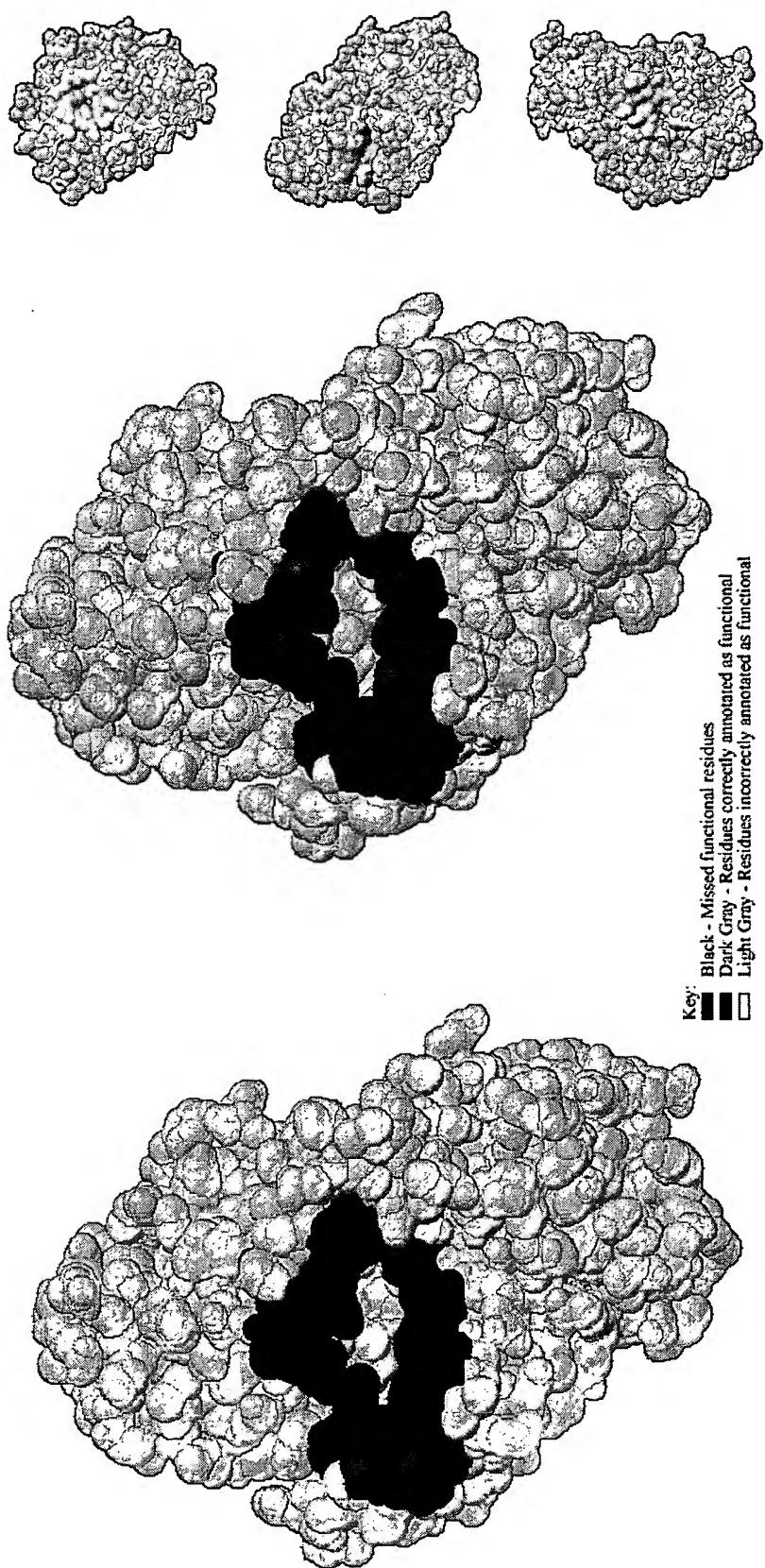


Figure 16

EST AVAILABILITY COPY

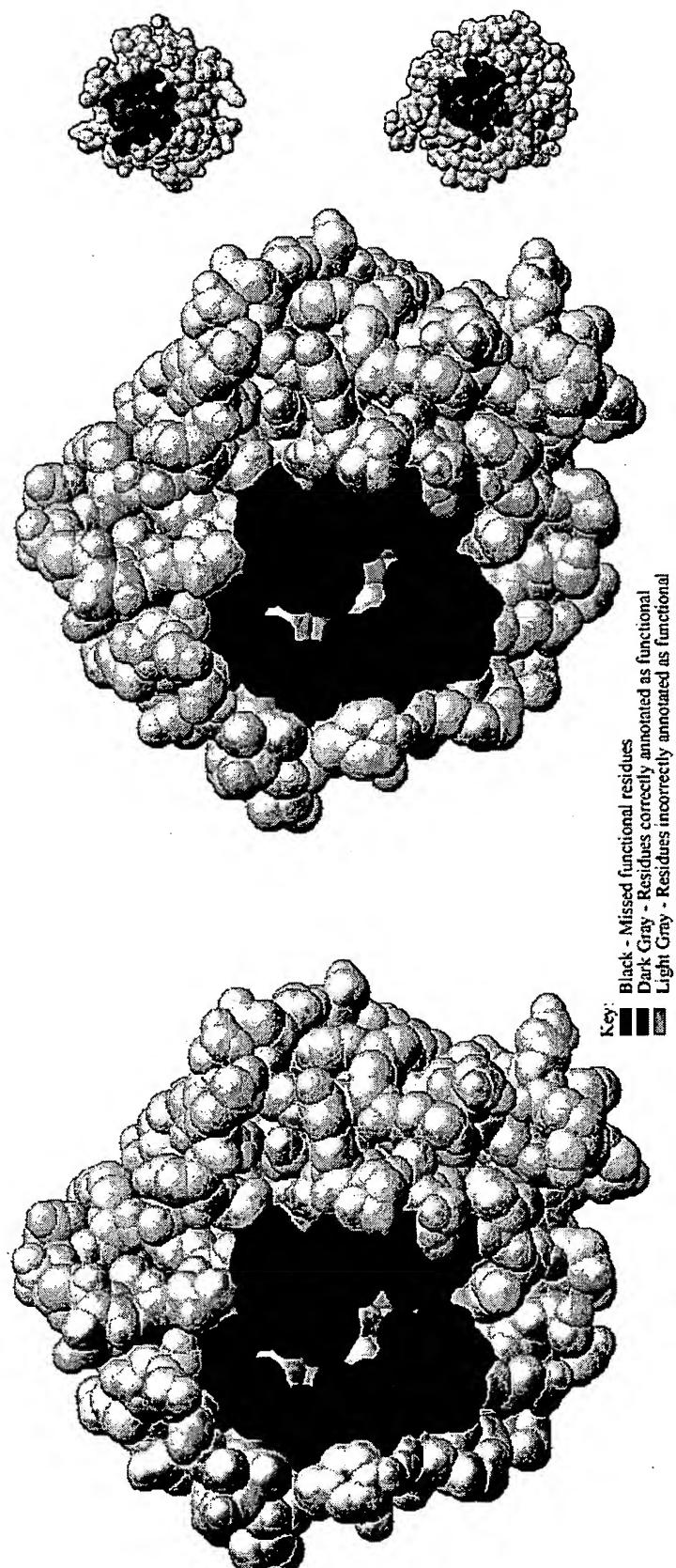


Figure 17

PRINT AVAIL AND COPY

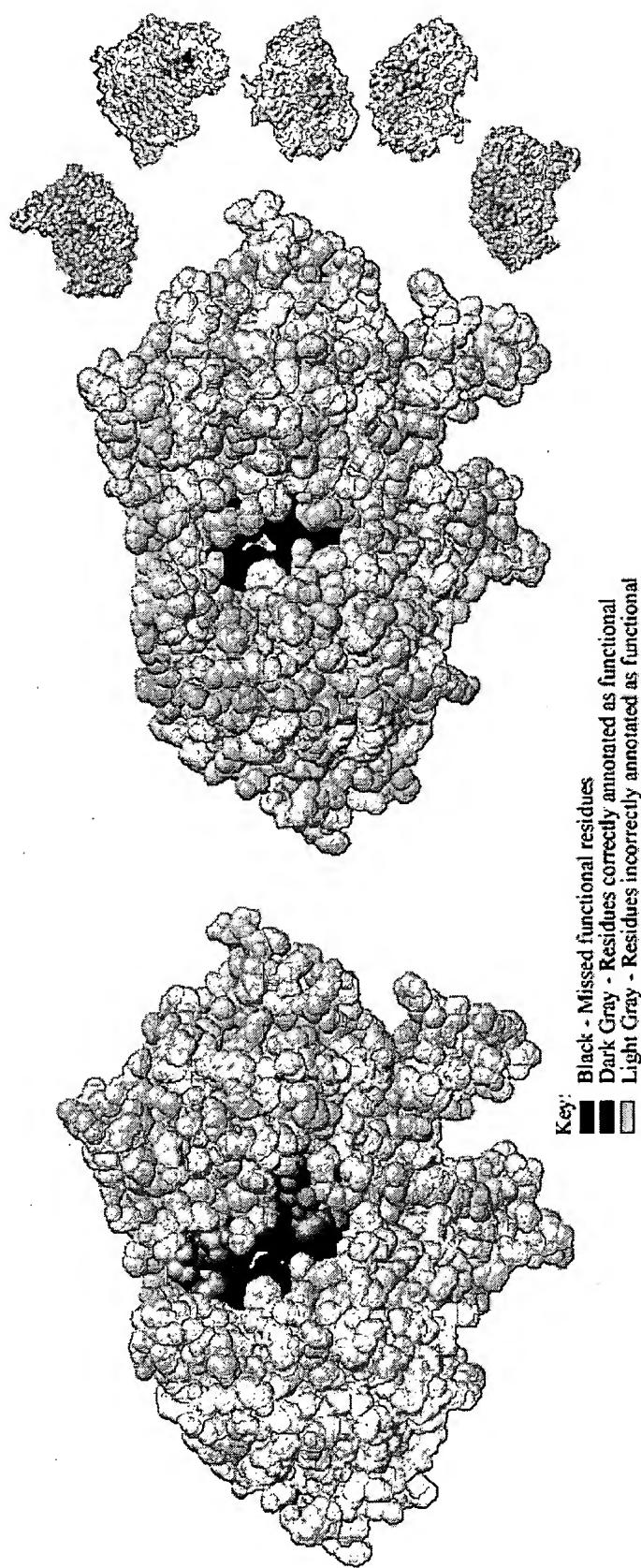


Figure 18

CC BY 4.0 International

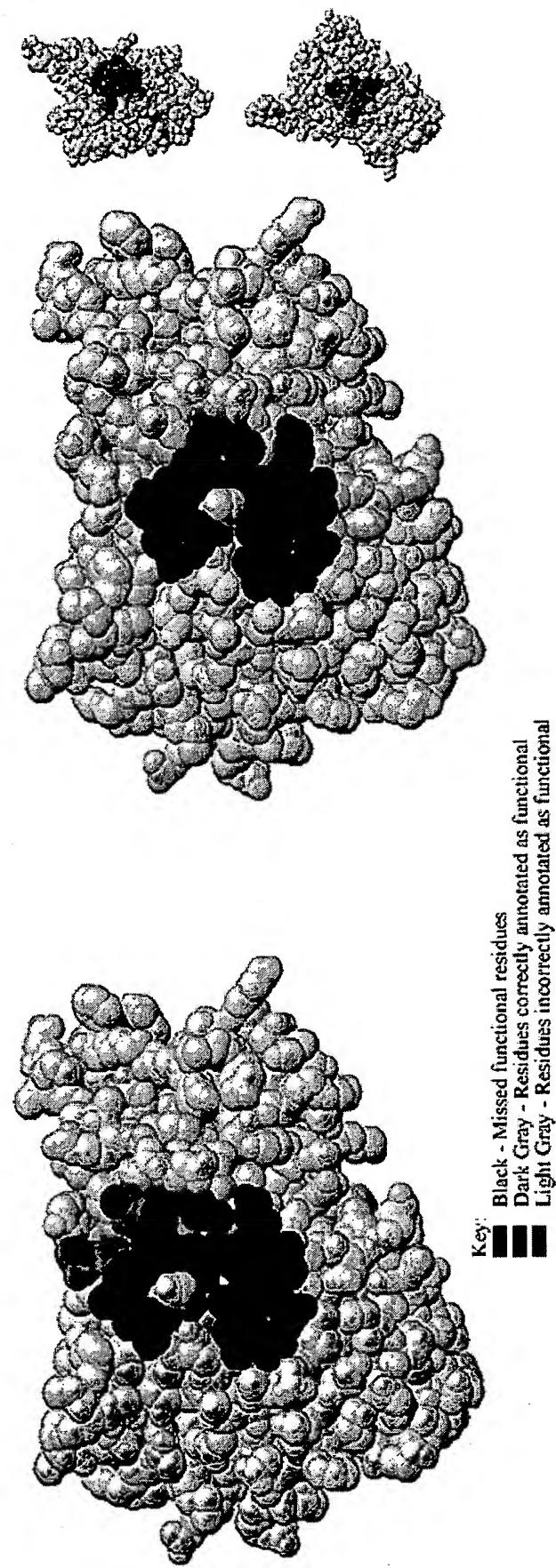


Figure 19

BEST AVAILABLE COPY

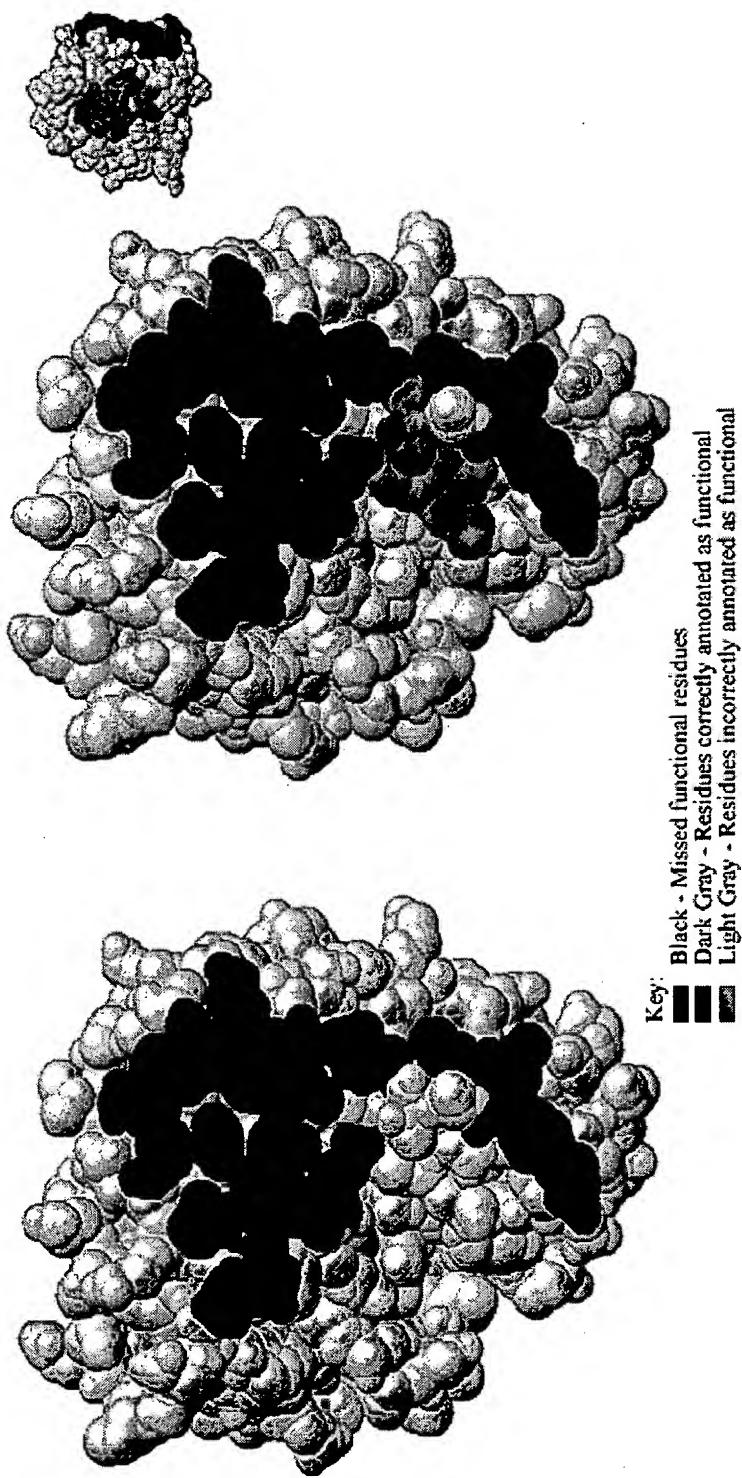


Figure 20

DO NOT ALLOWABLE COPY

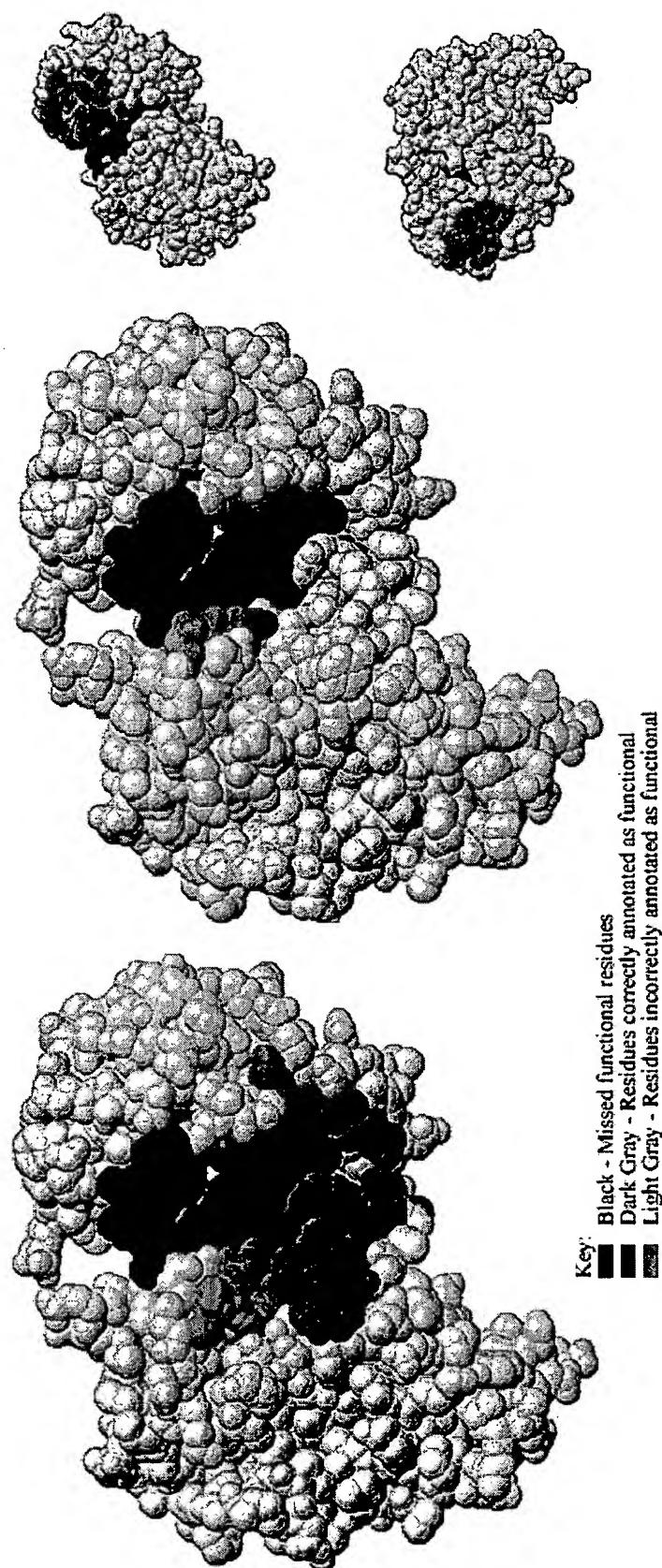


Figure 21

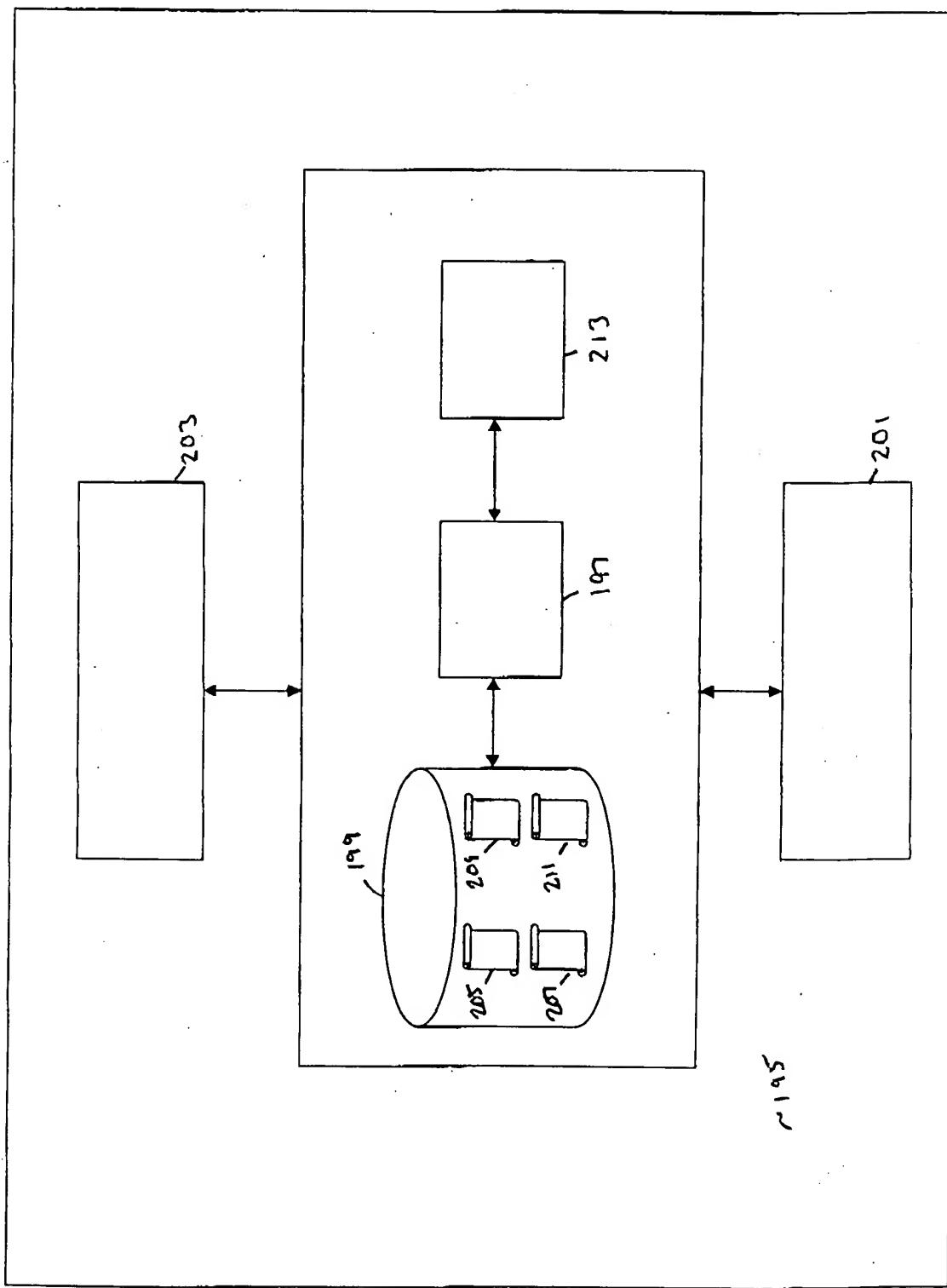


Figure 22